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Abstract of the Disclosure

Cone beam volume CT mammography is performed with a gantry frame on which a cone-beam radiation source and a digital area detector are mounted. The patient rests on an ergonomically designed table with a hole or two holes to allow one breast or two breasts to extend therethrough such that the gantry frame surrounds that breast. The gantry frame is rotatable so that the radiation source and the detector move in a circular orbit around the breast. In addition, the gantry frame is movable to describe a geometry other than a simple circle orbit, such as a circle plus one or more lines or a spiral.